

Form PTO-1449 <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b> <i>(Use several sheets if necessary)</i>			Docket Number (Optional) <b>4075US</b>	Application Number <b>09/332,803</b>		
			Applicant <b>V gel s t al.</b>			
			Filing Date <b>June 14, 1999</b>	Group Art Unit <b>To-be- assigned 1636</b>		
<b>U.S. PATENT DOCUMENTS</b>						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<b>FOREIGN PATENT DOCUMENTS</b>						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation
						YES      NO
<i>DR</i>	WO 97/00326	01/03/97	PCT			
<b>OTHER DOCUMENTS</b> (Including Author, Title, Date, Pertinent Pages, Etc.)						
<b>RECEIVED</b>						
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EXAMINER <i>David Sugo</i>			DATE CONSIDERED <i>1/26/01</i>			
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		Applicant <b>Ronald Vogels; Abraham Bout</b>	
		Filing Date <b>June 14, 1999</b>	Group Art Unit <del>To be assigned</del> 1636

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>jk</i>	5,378,618	01/03/95	Sternberg et al.			
<i>jk</i>	5,545,522	08/13/96	Van Gelder et al.			
<i>jk</i>	5,652,224	07/29/97	Wilson et al.			
<i>jk</i>	5,670,488	09/23/97	Gregory et al.			
<i>jk</i>	5,707,618	01/13/98	Armentano et al.			
<i>jk</i>	5,753,500	05/19/98	Shenk et al.			

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
<i>jk</i>	WO 94/12649	06/09/94	PCT			X	
<i>jk</i>	WO 94/23582	10/27/94	PCT			X	
<i>jk</i>	WO 94/26914	11/24/94	PCT			X	
<i>jk</i>	WO 94/28152	12/08/94	PCT			X	
<i>jk</i>	WO 95/00655	01/05/95	PCT			X	
<i>jk</i>	95201611.1	06/15/95	EPo			X	
<i>jk</i>	WO 95/02697	01/26/95	PCT			X	
<i>jk</i>	95201728.3	06/26/95	EPo			X	
<i>jk</i>	WO 95/27071	10/12/95	PCT			X	
<i>jk</i>	WO 96/16676	06/06/96	PCT			X	

**OTHER DOCUMENTS**

(Including Author, Title, Date, Pertinent Pages, Etc.)

<i>jk</i>	Amalfitano et al., "Improved adenovirus packaging cell lines to support the growth of replication-defective gene-delivery vectors", <u>Proc. Natl. Acad. Sci. USA</u> , 93:3352-3356, April 1996.
<i>jk</i>	Amalfitano et al., "Isolation and characterization of packaging cell lines that coexpress the adenovirus E1, DNA polymerase, and preterminal proteins: implications for gene therapy", <u>Gene Therapy</u> , 4:258-263, 1997.
<i>jk</i>	Armentano et al., "Characterization of an Adenovirus Gene Transfer Vector Containing an E4 Deletion", <u>Human Gene Therapy</u> , 6:1343-1353, October 1995.
<i>jk</i>	Blase et al., "Vectors in Cancer therapy: how will they deliver?", <u>Cancer Gene Therapy</u> , Vol. 2, No. 4, 1995, pp. 291-297.
<i>jk</i>	Bout et al., "In vivo adenovirus-mediated transfer of human CFTR cDNA to Rhesus monkey airway epithelium: efficacy, toxicity and safety", <u>Gene Therapy</u> 1, pp. 385-394, 1994.
<i>jk</i>	Bout et al., "Lung Gene Therapy: In Vivo Adenovirus-Mediated Gene Transfer to Rhesus Monkey Airway Epithelium", <u>Human Gene Therapy</u> , 5:3-10, 1994.

EXAMINER <i>David Sager</i>	DATE CONSIDERED <i>1/26/01</i>
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			Filing Date <b>June 14, 1999</b>	Group Art Unit <b>To be assigned 1636</b>

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
92	WO 96/18418	06/20/96	PCT	—	—	X	
02	WO 96/33280	10/24/96	PCT	—	—	X	
02	WO 96/40955	12/19/96	PCT	—	—	X	
02	WO 97/00326	01/03/97	PCT	—	—	X	
01	WO 97/00947	01/09/97	PCT	—	—	X	
01	WO 97/04119	02/06/97	PCT	—	—	X	
02	WO 97/05255	02/13/97	PCT	—	—	X	

**OTHER DOCUMENTS**

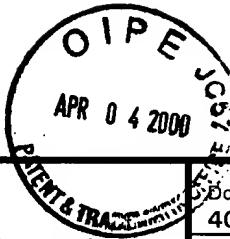
(Including Author, Title, Date, Pertinent Pages, Etc.)

02	Brough et al., "A Gene Transfer Vector-Cell Line System for Complete Functional Complementation of Adenovirus Early Regions E1 and E4", <u>Journal of Virology</u> , 70(9):6497-6501, September 1996.
01	Brough et al., "Stable Cell Lines for Complementation of Adenovirus Early Regions E1, E2A and E4; <u>Abstract Book CSH Conference On Gene Therapy</u> , 42, 1996.
02	Brough et al., "Construction, Characterization, and Utilization of Cell Lines Which Inducibly Express the Adenovirus DNA-Binding Protein", <u>Virology</u> , 190:624-634, 1992.
01	Caravokyri et al., "Constitutive Episomal Expression of Polypeptide IX (pIX) in a 293-Based Cell Line Complements the Deficiency of pIX Mutant Adenovirus Type 5", <u>Journal of Virology</u> , 69(11):6627-6633, November 1995.
01	Fallaux et al., "Characterization of 911: A New Helper Cell Line for the Titration and Propagation of Early Region 1-Deleted Adenoviral Vectors", <u>Human Gene Therapy</u> , 7:215-222, 1996.
01	Fallaux et al., "New Helper Cells and Matched Early Region 1-Deleted Adenovirus Vectors Prevent Generation of Replication-Competent Adenoviruses", <u>Human Gene Therapy</u> , 9:1909-1917, September 1, 1998.
01	Fisher et al., "Recombinant Adenovirus Deleted of All Viral Genes for Gene Therapy of Cystic Fibrosis", <u>Virology</u> , 217:11-22, 1996.
02	Gao et al., "Biology of Adenovirus Vectors with E1 and E4 Deletions for Liver-Directed Gene Therapy", <u>Journal of Virology</u> , 70(12):8934-8943, December 1996.

EXAMINER	DATE CONSIDERED
<i>David Gugan</i>	<i>1/26/01</i>

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Form PTO-1449 <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b> <i>(Use several sheets if necessary)</i>			Docket Number (Optional) <b>4075US</b>		Application Number <b>09/332,803 To be assigned 16-26</b>	
			Applicant <b>Ronald Vogels; Abraham Bout</b>		Filing Date <b>Jun 14, 1999</b>	
<b>U.S. PATENT DOCUMENTS</b>						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation
						YES
<b>OTHER DOCUMENTS</b> <small>(Including Author, Title, Date, Pertinent Pages, Etc.)</small>						
<i>gc</i>	Gorziglia et al., "Elimination of both E1 and E2a from Adenovirus Vectors Further Improves Prospects for In Vivo Human Gene Therapy", <u>Journal of Virology</u> , <u>70</u> (6):4173-4178, June 1996.					
<i>gc</i>	Haddada et al., "Adenoviral Interleukin-2 Gene Transfer into P815 Tumor Cells Abrogates Tumorigenicity and Induces Antitumoral Immunity in Mice", <u>Human Gene Therapy</u> , <u>4</u> :703-711, 1993.					
<i>gc</i>	Hardy et al., "Construction of Adenovirus Vectors through Cre-lox Recombination", <u>Journal of Virology</u> , <u>71</u> (3):1842-1849, March 1997.					
<i>gc</i>	Hehir et al., "Molecular Characterization of Replication-Competent Variants of Adenovirus Vectors and Genome Modifications To Prevent Their Occurrence", <u>Journal of Virology</u> , <u>70</u> (12):8459-8467, December 1996.					
<i>gc</i>	Imler et al., "Novel complementation cell lines derived from human lung carcinoma A549 cells support the growth of E1-deleted adenovirus vectors", <u>Gene Therapy</u> , <u>3</u> :75-84, 1996.					
<i>gc</i>	Kornberg, Arthur, "DNA Replication", W.H. Freeman and Company, San Francisco, 8 pages.					
<i>gc</i>	Krougliak et al., "Development of Cell Lines Capable of Complementing E1, E4, and Protein IX Defective Adenovirus Type 5 Mutants", <u>Human Gene Therapy</u> , <u>6</u> :1575-1586, December 1995.					
<i>gc</i>	Lieber et al., "Recombinant Adenoviruses with Large Deletions Generated by Cre-Mediated Excision Exhibit Different Biological Properties Compared with First-Generation Vectors In Vitro and In Vivo", <u>Journal of Virology</u> , <u>70</u> :8944-8960, December 1996.					
<i>gc</i>	Ngo et al., "Computational Complexity, Protein Structure Prediction, and the Levinthal Paradox", <u>The Protein Folding Problem and Tertiary Structure Prediction</u> , 5 pages.					
<i>gc</i>	Sabat et al., "Process Development for the Production of Second Generation Adenovirus Vectors for Gene Transfer in Clinical Protocols", <u>Abstract Book 14th Meeting on Animal Cell Technology</u> , BI-3, 1996.					
<i>gc</i>	Schaack et al., "Adenovirus Type 5 Precursor Terminal Protein-Expressing 293 and HeLa Cell Lines", <u>Journal of Virology</u> , <u>69</u> (7):4079-4085, July 1995.					
<i>gc</i>	Vanhaesebroeck et al., <u>Virology</u> , <u>176</u> (2), pp. 362-368, June 1990.					
<i>gc</i>	Vincent et al., "Herpes Simplex Virus Thymidine Kinase Gene Therapy for Rat Malignant Brain Tumors", <u>Human Gene Therapy</u> <u>7</u> :197-205, January 20, 1996.					
<i>gc</i>	Vincent et al., "Treatment of leptomeningeal metastases in a rat model using a recombinant adenovirus containing the HSV-tk gene", <u>J. Neurosurg.</u> , Vol. 85, pp. 648-654, 1996.					
<i>gc</i>	Wang et al., "A packaging cell line for propagation of recombinant adenovirus vectors containing two lethal gene-region deletions", <u>Gene Therapy</u> , <u>2</u> :775-783, 1995.					
<i>gc</i>	Yeh et al., "Efficient Dual Transcomplementation of Adenovirus E1 and E4 Regions from a 293-Derived Cell Line Expressing a Minimal E4 Functional Unit", <u>Journal of Virology</u> , <u>70</u> (1):559-565, January 1996.					
<i>gc</i>	Zhou et al., "Development of a Complementing Cell Line and a System for Construction of Adenovirus Vectors with E1 and E2a Deleted", <u>Journal of Virology</u> , <u>70</u> (1):7030-7038, October 1996.					
EXAMINER	DATE CONSIDERED <i>David Hayes</i> 1/24/01					
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Sheet 1 of 1

Form PTO-1449 <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b> <i>(Use several sheets if necessary)</i>		Docket Number (Optional) 4075US	Application Number 09/332,803			
		Applicant Fallaux et al.				
		Filing Date June 14, 1999	Group Art Unit 1636 To be assigned			
<b>U.S. PATENT DOCUMENTS</b>						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
dc	4,405,712	09/20/83	Vande Woude et al.			
dc	4,497,796	02/05/85	Salser et al.			
dc	4,727,028	02/23/88	Santerre et al.			
dc	4,740,463	04/26/88	Weinberg et al.			
dc	5,190,931	03/02/93	Inouye			
dc	5,208,149	05/04/93	Inouye			
dc	5,518,913	05/21/96	Massie et al.			
dc	5,837,511	11/17/98	Falck-Pedersen et al.			
dc	5,994,106	11/30/99	Kovesdi et al.			
dc	5,994,128	11/30/99	Fallaux et al.			
dc	6,033,908	03/07/00	Bout et al.			
dc	6,040,174	03/21/00	Imler et al.			
<b>FOREIGN PATENT DOCUMENTS</b>						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation
						YES
dc	2,053,187	04/11/93	Canada			
dc	WO 94/28152	12/08/94	PCT			
dc	2,701,664	01/20/95	France			
dc	WO 95/02697	01/26/95	PCT			
dc	CA 2117668	09/10/95	Canada			
dc	AU-A-28533/95	03/21/96	Australia			
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